

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer implemented method for matching a remittance to a transaction, the method being executed by one or more computer systems, the method comprising:

accessing remittance lines, transaction information, and a matching rule that assigns a weight to a plurality of parameters considered in said matching, wherein the matching rule organizes the parameters into a tree structure according to significance of each of the parameters;

for each parameter of the plurality of parameters, determining a score for a match between the remittance and the transaction for the parameter, wherein the score corresponds to a probability of an accurate match between the remittance and the transaction for the parameter;

determining, using the matching rule, a weight assigned to each of the parameters of the plurality of parameters;

computing a weighted matching score corresponding to a probability of an accurate match between said remittance and said transaction, wherein the weighted matching score is computed based upon, for each parameter of the plurality of parameters, the assigned weight and the score for the parameter; and

generating a match recommendation based on said weighted matching score.

2. (Original) The method as recited in Claim 1 further comprising:

determining that said weighted matching score is below a minimum scoring threshold; and

comparing said remittance against a plurality of electronic invoices.

3. (Original) The method as recited in Claim 2 wherein said comparing comprises associating a sum of said plurality of electronic invoices closely to an amount corresponding to said remittance.

4. (Original) The method as recited in Claim 3 wherein said associating is performed by a process comprising a Knapsack heuristic.

5. (Original) The method as recited in Claim 1 wherein said remittance lines comprise a lockbox file.

6. (Previously Presented) The method as recited in Claim 1, further comprising:
calculating a weighted customer score;
calculating a weighted transaction score; and
determining a total weighted matching score based on said weighted customer score and said weighted transaction score.

7. (Original) The method as recited in Claim 1 wherein said determining a total match score comprises scoring strings and numbers.

8. (Original) The method as recited in Claim 7 wherein said scoring strings and numbers is performed by a process comprising a Levenshtein and Longest common substring fuzzy scoring heuristic.

9. (Original) The method as recited in Claim 6 wherein said calculating a weighted transaction score comprises:
calculating a weighted transaction number score;
calculating a weighted transaction amount score; and
determining said weighted transaction score based on said weighted transaction number score and said weighted transaction amount score.

10. (Original) The method as recited in Claim 6 wherein said calculating a weighted customer score comprises:

calculating a weighted customer name score;
calculating a weighted customer identity score;
calculating a weighted bank score; and
determining said weighted customer score based on said weighted customer name score, said weighted customer identity score, and said weighted bank score.

11. (Original) The method as recited in Claim 10 wherein said calculating a weighted customer name score comprises:

calculating a weighted customer string score;
calculating a weighted customer acronym score; and
determining said weighted customer name score based on said weighted customer string score and said weighted customer acronym score.

12. (Original) The method as recited in Claim 1 further comprising:
sending said match recommendation to a receipt application program interface;
assigning an informative header to a remittance for use by a receipt application;
where said match recommendation comprises an unmatched remittance, sending said match recommendation to an unmatched remittance notification initiator; and
initiating a workflow notification corresponding to said unmatched remittance.

13. (Currently Amended) A computer based system for matching a remittance to a transaction, said system comprising:

a matching program accessing remittance lines of said remittance, transaction information, and a matching rule wherein said matching rule assigns a weight to a plurality of parameters considered in said matching program, the matching program determining, for each parameter of the plurality of parameters, a score for a match between the remittance and the transaction for the parameter, wherein the score corresponds to a probability of an accurate match between the remittance and the transaction for the parameter determining, using the matching rule, a weight assigned to each of the parameters of the plurality of parameters, computing a weighted matching score corresponding to a probability of an accurate match

between said remittance and said transaction, wherein the weighted matching score is computed based upon, for each parameter of the plurality of parameters, the assigned weight and the score for the parameter and for generating a match recommendation based on said weighted matching score;

a graphical user interface operating with said matching program and comprising an interactive display for allowing a user input, said graphical user interface for generating a said matching rules, wherein each matching rule organizes a set of parameters into a tree structure according to significance of each of the parameters;

a data staging program operating with said matching program for accessing a database, extracting relevant transaction information therefrom, staging said relevant transaction information for use by said matching program, and providing said relevant transaction information thereto; and

a post match handler for handling said match recommendation.

14. (Original) The system as recited in Claim 13 further comprising:

a receipt application program interface operating with said post match handler for providing said match recommendation to a receipt application; and

a notification initiator operating with said post match handler for initiating a notification wherein said notification comprises a report that a match failed between said remittance and said transaction.

15. (Previously Presented) The system as recited in Claim 13 , further comprising:

calculating a weighted customer score;

calculating a weighted transaction score; and

determining a weighted total match score based on said weighted customer score and said weighted transaction score.

16. (Currently Amended) A computer usable medium having stored therein a computer readable program code ~~for causing that, when executed, causes~~ a computer system to

execute a method of matching a remittance to a transaction, said method comprising the program code including instructions that cause a processor of the computer system to perform the following tasks:

accessing remittance lines, transaction information, and a matching rule that assigns a weight to a plurality of parameters considered in said matching, wherein the matching rule organizes the parameters into a tree structure according to significance of each of the parameters;

for each parameter of the plurality of parameters, determining a score for a match between the remittance and the transaction for the parameter, wherein the score corresponds to a probability of an accurate match between the remittance and the transaction for the parameter;

determining, using the matching rule, a weight assigned to each of the parameters of the plurality of parameters;

computing a weighted matching score corresponding to a probability of an accurate match between said remittance and said transaction, wherein the weighted matching score is computed based upon, for each parameter of the plurality of parameters, the assigned weight and the score for the parameter; and

generating a match recommendation based on said weighted matching score.

17. (Currently Amended) The computer usable medium as recited in Claim 16 wherein the program code further comprises instructions that cause a processor of the computer system to perform the following tasks:

determining that said weighted matching score fails a minimum scoring threshold;
and

comparing said remittance against a plurality of invoices.

18. (Original) The computer usable medium as recited in Claim 17 wherein said comparing comprises associating a sum of said plurality of invoices closely to an amount corresponding to said remittance.

19. (Original) The computer usable medium as recited in Claim 18 wherein said associating is performed by a process comprising a Knapsack heuristic.

20. (Original) The computer usable medium as recited in Claim 16 wherein said remittance lines comprise a lockbox file.

21. (Previously Presented) The computer usable medium as recited in Claim 16, further comprising:

calculating a weighted customer score;

calculating a weighted transaction score; and

determining a weighted total match score based on said weighted customer score and said weighted transaction score.

22. (Original) The computer usable medium as recited in Claim 21 wherein said determining a total match score is further based on scoring strings and numbers.

23. (Original) The computer usable medium as recited in Claim 22 wherein said scoring strings and numbers is performed by a process comprising a Levenshtein and Longest common substring fuzzy scoring heuristic.

24. (Original) The computer usable medium as recited in Claim 21 wherein said calculating a weighted transaction score comprises:

calculating a weighted transaction number score;

calculating a weighted transaction amount score; and

determining said weighted transaction score based on said weighted transaction number score and said weighted transaction amount score.

25. (Original) The computer usable medium as recited in Claim 21 wherein said calculating a weighted customer score comprises:

calculating a weighted customer name score;

calculating a weighted customer identity score;

calculating a weighted bank score; and
determining said weighted customer score based on said weighted customer name score, said weighted customer identity score, and said weighted bank score.

26. (Original) The computer usable medium as recited in Claim 25 wherein said calculating a weighted customer name score comprises:
calculating a weighted customer string score;
calculating a weighted customer acronym score; and
determining said weighted customer name score based on said weighted customer string score and said weighted customer acronym score.

27. (Original) The computer usable medium as recited in Claim 16 wherein said method further comprises handling said recommendations.